

Message Text

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ACTION COME-00

INFO OCT-01 EUR-12 ISO-00 EB-08 DODE-00 PM-05 TRSE-00

CIAE-00 INR-10 NSAE-00 ACDA-12 /048 W
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P 251108Z JUL 78

FM AMEMBASSY LONDON

TO SECSTATE WASHDC PRIORITY 8477

INFO USMISSION USNATO PRIORITY

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E.O. 11652: N/A

TAGS: BENC, NATO, UK

SUBJECT: MAJOR PROJECT - IFB FOR AIRCRAFT SURVIVAL

SHELTERS

REF: STATE 182974

ATTN: USDOC/MEPD

1. TEXT OF NATO ICB NOTICE FOR RAF MARHAM; PRE-

QUALIFICATION DEADLINE JULY 31, 1978.

2. "NATO - INTERNATIONAL COMPETITIVE BIDDING NOTICE".

CONSTRUCTION OF 24 AIRCRAFT SHELTERS; 16 SUPPORT BUILDINGS AND A LENGTH OF PERIMETER ROAD AT RAF MARHAM.

"SITE LOCATION"

2. "RAF MARHAM IS SITUATED IN THE COUNTY OF NORFOLK,

ENGLAND, ABOUT 15 KM SE OF THE TOWN OF KING'S LYNN.

SCOPE OF WORK

3. AIRCRAFT SHELTERS:

THE AIRCRAFT SHELTERS TO BE CONSTRUCTED ARE APPROXIMATELY SEMI CIRCULAR IN CROSS-SECTION WITH MAIN INTERNAL DIMENSIONS OF:

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LENGTH - 36.66 METRES; WIDTH AT FLOOR LEVEL- 21.58

METRES; HEIGHT AT CENTERLINE - 8.35 METRES.

EACH INDIVIDUAL AIRCRAFT SHELTER COMPRISSES:

A. FLOOR CONSTRUCTED IN PAVEMENT QUALITY CONCRETE (PQC)
B. REINFORCED CONCRETE GROUND BEAMS WHICH SUPPORT ARCH LINERS, CHANNELS AND ASSOCIATED COMPONENTS. ARCH LINERS ARE 3 MM THICK GALVANISED STEEL WITH MAIN LONGITU-

DINAL CORRUGATIONS 360 MM DEEP BY 610 MM CREST TO CREST AND MINOR TRANSVERSE CORRUGATIONS, BENT TO SPECIFIED RADII TO SUIT THE SHELTER PROFILE.

C. REINFORCED CONCRETE PLACED OVER THE ARCH LINERS TO A MINIMUM THICKNESS OF 450 MM.

D. REAR WALL (WITH ASSOCIATED STEEL SLIDING DOOR), JET EFFLUX TUNNEL AND DEFLECTORS IN REINFORCED CONCRETE.

E. MAIN BI-PARTING REINFORCED CONCRETE DOOR WITH STEEL BACK AND STABILISING OUT-RIGGER, MOUNTED ON DUAL STEEL TRACKS SUPPORTED ON A REINFORCED CONCRETE FOUNDATION.

F. ASSOCIATED ELECTRICAL INSTALLATIONS WORKS, VENTILATION AND HEATING SYSTEM, AIRCRAFT WINCH SYSTEM AND DOOR DRIVE GEAR, AS DESCRIBED BELOW.

THE SCOPE OF THE MAIN CONTRACT INCLUDES CLEARING OF EACH SITE, CONSTRUCTION OF THE CONCRETE FOUNDATIONS AND FLOORS, SUPPLY AND ERECTION OF THE STEEL ARCH LINERS; SUPPLY, FABRICATION AND ERECTION OF ALL DOORS, ASSOCIATED TRACKS AND FOUNDATIONS AND PLACING OF ALL REINFORCED CONCRETE. ALSO INCLUDED IS THE CONSTRUCTION OF AIRCRAFT ACCESS APRONS AND TAXITRACKS IN PQC TO THE INDIVIDUAL SHELTERS, ASPHALT RAMPS, ASSOCIATED DRAINAGE WORKS AND BUILDERS WORK ASSOCIATED WITH NOMINATED SUB-CONTRACTS.

EACH AIRCRAFT SHELTER INCLUDES HIGH PRESSURE SODIUM UNCLASSIFIED

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AND OTHER INTERNAL AND EXTERNAL LIGHTING, SOCKET OUTLETS, ELECTRIC DOOR TRACK HEATING, MECHANICAL VENTILATION, HEATING WITH HOT WATER BOILER, STANDBY GENERATION, FUEL STORAGE, AN AIRCRAFT TOWING WINCH, FIRE ALARMS, PUBLIC ADDRESS SYSTEM, LIGHTNING PROTECTION AND EARTHING SYSTEMS. THE EXTERNAL M & E SERVICES INCLUDE MAJOR ADDITIONS AND ALTERATIONS TO HIGH AND LOW VOLTAGE ELECTRIC CABLE AND SUB-STATIONS, AND TO AIRFIELD GROUND LIGHTING INSTALLATIONS; SUPPLY AND INSTALLATION OF PUBLIC ADDRESS AND FIRE ALARM CABLES; STORAGE, PUMPING AND DISTRIBUTION OF FUEL FOR BOILERS; STANDBY GENERATORS, SEWAGE AND WATER PUMPS, AND AIRCRAFT AND VEHICLE EARTH POINTS. ALL STANDBY GENERATORS POWER TRANSFORMERS AND SUB-STATION SWITCHGEAR, AND CERTAIN LIGHT FITTINGS, WILL BE SUPPLIED BY PSA FOR INSTALLATION, CONNECTING UP AND TESTING BY THE CONTRACTOR.

4. SUPPORT BUILDINGS:

THE SUPPORT BUILDINGS (ONE OF EACH OF THE FOLLOWING)

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ARE SINGLE STOREY REINFORCED CONCRETE WINDOWLESS BUILDINGS 650 MM THICK GAS TIGHT AND WITH APPROXIMATE INTERNAL DIMENSIONS OF:

(ALL IN METRES) LENGTH WIDTH HEIGHT

SQUADRON OPERATIONS 24.00 16.50 4.00

PERSONNEL SHELTER 35.00 11.00 4.00

GENERAL SERVICE SHELTER 'A' 11.65 4.80 4.00

GENERAL SERVICE SHELTER 'B' 12.30 9.85 4.00

EQUIPMENT SHELTER 17.85 9.85 4.00

EACH OF THE ABOVE BUILDINGS COMPRISES A REINFORCED CONCRETE BOX WITH GAS TIGHT DOORS AND AIR LOCKS, PLANT ROOMS, INTERNAL PARTITIONING, TOILETS AND SHOWERS AS APPROPRIATE, TOGETHER WITH ROAD ACCESS AND EXTERNAL SERVICES.

THE SQUADRON OPERATIONS BUILDING AND THE PERSONNEL SHELTER WILL INCLUDE HEATING, VENTILATION, AIR CONDITIONING AND HOT AND COLD WATER STORAGE, PRESSURISING AND DISTRIBUTION, BLAST VALVES, BLAST ATTENUATION LABRINTHS, GAS TIGHT DOORS AND VALVES, AIR LOCKS AND GAS FILTERS WITH A PRESSURISED VENTILATION SYSTEM.

THE GAS FILTERS WILL BE SUPPLIED BY PSA FOR INSTALLATION.
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LATION BY THE CONTRACTOR. EACH BUILDING WILL HAVE 2 PLANT ROOMS INCLUDING A HEATING BOILER, STANDBY GENERATOR (PSA SUPPLIED) AND PROTECTED FUEL STORAGE. LIGHTING, POWER SUPPLIES, SOCKET OUTLETS AND EARTHING SYSTEMS ARE ALSO INCLUDED.

THE GENERAL SERVICE SHELTERS 'A' AND 'B' WILL HAVE FLAME-PROOF ELECTRICAL INSTALLATIONS INCLUDING MECHANICAL VENTILATION, LIGHTING, SOCKET OUTLETS, LIGHTING PROTECTION AND EARTHING.

THE EQUIPMENT SHELTER WILL INCLUDE HEATING AND VENTILATION, LIGHTING AND SOCKET OUTLETS.

SQUADRON OPERATIONS BUILDING WILL BE PROVIDED WITH AN ANNEXE 11.50 M. LONG BY 16.50 M. WIDE IN NORMAL CONSTRUCTION WITH WINDOWS, A ROOF OF STEEL BEAMS AND TIMBER CAVITY WALLS AND INTERNAL PARTITIONS. WITHIN THE AREA OF THE SHELTER COMPLEX WILL BE BUILT 3 SMALL TOILET BLOCKS, ALL OF TRADITIONAL DESIGN AND EACH WITH 2 WCS, 1 WASHBASIN, LIGHTING, ELECTRICAL HEATING AND ELECTRIC HOT WATER BOILERS (PSA SUPPLIED).

5. SUB-CONTRACTS WILL BE NOMINATED FOR:

- A. MECHANICAL INSTALLATIONS, INCLUDING ALL INTERNAL AND EXTERNAL MECHANICAL SERVICES DESCRIBED ABOVE. ORDER OF COST 600,000 POUNDS STERLING.
- B. ELECTRICAL INSTALLATIONS, INCLUDING ALL INTERNAL AND EXTERNAL ELECTRICAL SERVICES DESCRIBED ABOVE. ORDER OF COST 250,000 POUNDS STERLING.
- C. WINCHES, SUPPLY AND INSTALLATION OF 2 TONNE ELECTRIC WINCHES. ORDER OF COST 80,000 POUNDS STERLING.

NOTE - THE ABOVE COSTS EXCLUDE THE SUPPLY AND DELIVERY
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VERY OF PSA SUPPLIED ITEMS BUT INCLUDE INSTALLATION, CONNECTING UP AND TESTING.

ESTIMATED VALUE OF CONTRACT:

- 6. THE ORDER OF COST IS 13.0M INCLUDING THE SUB-CONTRACT ITEMS LISTED IN PARA 4.

PROGRAMME:

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7. IT IS PROPOSED TO INVITE TENDERS FOR THE MAIN CONTRACTS AND NOMINATED SUB-CONTRACTS DURING THE FIRST QUARTER OF 1979 WITH A WORK START DURING THE THIRD QUARTER OF 1979, FOR COMPLETION WITHIN 25 MONTHS.

8. FIRMS WISHING TO BE INVITED TO TENDER FOR THIS WORK SHALL INDICATE WHETHER THEY ARE INTERESTED IN:
A. THE MAIN CONTRACT ONLY, AND/OR
B. INDIVIDUAL NOMINATED SUB-CONTRACTS, STATING WHICH SUB-CONTRACT IS OF INTEREST.

SECURITY:

9. WORKPEOPLE, STAFF AND VEHICLES WILL BE SUBJECT TO THE SECURITY REGULATIONS OF THE STATION.

FURTHER INFORMATION:

10. ANY ADDITIONAL INFORMATION REQUIRED MAY BE OBTAINED FROM: MR. B. G. INGLIS, PROJECT MANAGER, PROPERTY SERVICES AGENCY, DEPARTMENT OF THE ENVIRONMENT, DW/AIR C2 ROOM B712, WHITGIFT CENTRE, WELLESLEY ROAD, CROYDON, SURREY, CR9 3LY.
TELEPHONE: 01-686-8710 EXT. 3734 OR 3752.

11. THERE IS A POSSIBILITY THAT FIRMS EXPRESSING AN INTEREST IN THIS PROJECT WILL, IN ADDITION TO THE UNCLASSIFIED

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DECLARATION OF ELIGIBILITY GIVEN BY THE EMBASSY, BE ASKED TO COMPLETE A QUESTIONNAIRE ON THEIR FINANCIAL AND TECHNICAL ABILITY TO CARRY OUT THE WORK. CORRESPONDENCE ON THIS QUESTIONNAIRE WILL BE PASSED VIA

THE EMBASSIES.

12. ANY APPLICATIONS RECEIVED WHICH OMIT THE DETAIL
CALLED FOR IN PARAGRAPH 7 WILL BE RETURNED TO THE
APPROPRIATE EMBASSY."

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